## Acid-Coated Sand For Gravel Pack and Filter Cake Clean-up

## Abstract of Disclosure

A method of the preparation and utilization of polymerized alpha—hydroxycarboxylic—acid—coated proppants for gravel pack and removal of filter cake that was deposited by reservoir drilling fluid. In a preferred example, polyglycolic—acid—coated sand is used to replace conventional gravel pack sand typically used for gravel packing. Under downhole conditions, the acidic by—product generated from the hydration of polyglycolic—acid—coated sand can break down acid—soluble and/or acid—breakable components embedded in the filter cake. This reaction enhances the filter cake removal and the flow of hydrocarbon from the producing formation. The polyglycolic—acid—coated sand may be produced by polymerizing a glycolic acid with a natural or synthetic proppant like 20–40 mesh commercial sand, at temperatures of about 210 ° F or higher.